

Product datasheet for AP31888PU-N

OriGene Technologies, Inc.

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uPA (PLAU) Goat Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, IHC, WB

Recommended Dilution: Immunoblotting Assays (Western, dot-blot).

Immunosorbent with the antibody can be used for Affinity purification of Urokinase in one

step from biological fluids.

The antibody can be used for quantitative, specific and sensitive assay for Urokinase in

Human fluids (RIA, ELISA) in combination with the inhibiting monoclonal

antibody clone PGM2001 or non-inhibiting monoclonal antibody clone PGM2005.

It is very stable and can as such be used for conjugation with peroxydase, biotine, FITC, etc. It

can also be used in **Immunohistochemistry** on Frozen and Paraffin embedded tissue.

Recommended Dilutions: Immunohistochemistry: 1/50.

ELISA: 1/5000 (starting dilution).

Reactivity: Human

Host: Goat Isotype: IgG

Clonality: Polyclonal

Immunogen: Extensively purified native HMW-tcuPA and LMW-scuPA (mixture 50/50), isolated from

Human urine.

Pooled antisera are passed over DEAE-cellulose to produce IgG-enriched fraction, which is further subjected to absorption with immobilized total human serum proteins in order to

remove non-specific antibodies.

Specificity: The antibody binds to human HMW-scuPA (54 kDa), HMW-tsuPA (52 kDa) and LMW-scuPA (33

kDa) with high apparent affinity (Kd= 0.1 nM) completely inhibiting the ability of urokinase to activate plasminogen. Urokinase reaction with synthetic substrate S2444 is also inhibited. The antibody is highly specific for urokinase, no crossreactions were found with other serine proteases (tissue plasminogen activator, plasmin, trypsin, chymotrypsin, elastase, thrombin). Human whole plasma or plasma proteins do not interfere with its binding to urokinase.



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Formulation: PBS with Mannitol

State: Aff - Purified

State: Lyophilized purified IgG fraction from 0.01M Sodium Phosphate, 0.01M Sodium Borate,

0.15M Sodium Chloride, 1% Dextran, 1% Mannitol, pH 8

Reconstitution Method: Restore with 1 ml sterile pure water and add preservative if preferred.

Purification: Affinity Chromatogryphy: The affinity purified antibody is obtained by binding to immobilized

native Human Urokinase (antigen used for immunization), followed by elution with acidic

buffer, neutralization, dialysis, dispensing and lyophilization.

Conjugation: Unconjugated

Storage: Store lyophilized at 2-8°C for 6 months or at -20°C long term.

After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -

20°C long term.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: plasminogen activator, urokinase

Database Link: Entrez Gene 5328 Human

P00749

Background: This gene encodes a serine protease involved in degradation of the extracellular matrix and

possibly tumor cell migration and proliferation. A specific polymorphism in this gene may be associated with late-onset Alzheimer's disease and also with decreased affinity for fibrin-binding. This protein converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in plasminogen. Plasmin in turn cleaves this protein at a Lys-Ile bond to form a two-chain derivative in which a single disulfide bond connects the amino-terminal A-chain to the catalytically active, carboxy-terminal B-chain. This two-chain derivative is also called HMW-uPA (high molecular weight uPA). HMW-uPA can be further processed into LMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chain A (A1) and an amino-terminal

fragment. LMW-uPA is proteolytically active but does not bind to the uPA receptor.

Alternatively spliced transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq]

Synonyms: Urokinase-type plasminogen activator, U-plasminogen activator, Urokinase